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CLAIMS

1. (Original) Steel for the production of high-strength components with excellent low-temperature toughness, having the following composition (in % by weight):

C: 0.08 to 0.25 %,

Si: 0.10 to 0.30 %,

Mn: 0.80 to 1.60 %,

P: = 0.020 %,

S: = 0.015 %,

the sum of the P and S content being = 0.030 %,

Cr: 0.40 to 0.80 %,

Mo: 0.30 to 0.50 %,

Ni: 0.70 to 1.20 %,

Al: 0.020 to 0.060 %,

N: 0.007 to 0.018 %,

V: = 0.15 %,

Nb: = 0.07 %,

the sum of the V and Nb content being = 0.020 %, the remainder being iron and inevitable impurities.

- 2. (Currently Amended) Steel according to Claim 1, characterised in that wherein its C content is from 0.16 % by weight to 0.23 % by weight.
- 3. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, characterised in that wherein its Mn content is from 1.00 % by weight to 1.35 % by weight.
- 4. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, eharacterised in that <u>wherein</u> its Cr content is from 0.40 % by weight to 0.65 % by weight.

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5. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, characterised in that wherein its Mo content is from 0.35 % by weight to 0.50 % by weight.

- 6. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, eharacterised in that <u>wherein</u> its Ni content is from 0.75 % by weight to 1.00 % by weight.
- 7. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, eharacterised in that wherein its Al content is from 0.020 % by weight to 0.045 % by weight.
- 8. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, eharacterised in that wherein its N content is from 0.007 % by weight to 0.015 % by weight.
- 9. (Currently Amended) Steel according to <u>Claim 1</u> any one of the preceding claims, characterised in that wherein it has an austenite grain size that is finer than ASTM 10.
- 10. (Currently Amended) Use of a steel composed according to <u>Claim 1</u> any one of the <u>preceding claims</u> for the production of high-strength components by cold forming with subsequent temper-hardening.
- 11. (Currently Amended) Use according to Claim 10, characterised in that wherein the components are means for the carrying, pulling, lifting, conveying or securing of loads.
- 12. (Currently Amended) Use according to Claim 10, characterised in that wherein the components are means for the connection of structural elements.
- 13. (Currently Amended) Use according to <u>Claim</u> any one of <u>Claims</u> 10 to 12, characterised in that <u>wherein</u> the components are chains.
- 14. (Currently Amended) Use according to Claim 13, eharacterised in that Wherein the chains are round steel chains.

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15. (Currently Amended) Use according to either Claim 13 or Claim 14, characterised in that wherein the chains are welded.

- 16. (Currently Amended) Use according to <u>Claim</u> any one of <u>Claims</u> 10 to 15, eharacterised in that <u>wherein</u> the components have a strength of at least 1,200 MPa.
- 17. (Currently Amended) Use according to Claim 16, characterised in that wherein the strength is at least 1,550 MPa.
- 18. (Currently Amended) Use according to either Claim 16 or Claim 17, characterised in that wherein the strength is at least 1,600 MPa, in particular at least 1,650 MPa.
- 19. (Currently Amended) Use according to <u>Claim any one of Claims 10 to 18</u>, eharacterised in that <u>wherein</u> at a strength of at least 1,550 MPa, the fracture appearance transition temperature FATT of the components is at most -60 °C.
- 20. (Currently Amended) Use according to <u>Claim</u> any one of <u>Claims</u> 10 to 19, eharacterised in that <u>wherein</u> the notch impact working value is more than 45 J.
- 21. (Currently Amended) Use according to Claim any one of Claims 10 to 20, eharacterised in that wherein the material of the component has a technical crack initiation toughness J_{IC} of more than 170 N/mm².
- 22. (Currently Amended) Use according to Claim 21, eharacterised in that wherein the technical crack initiation toughness J_{IC} is more than 185 N/mm².
- 23. (Currently Amended) Use according to <u>Claim</u> any one of <u>Claims</u> 10 to 22, eharacterised in that <u>wherein</u> the components exhibit an elongation at break of more than 28%.